

Supplementary materials

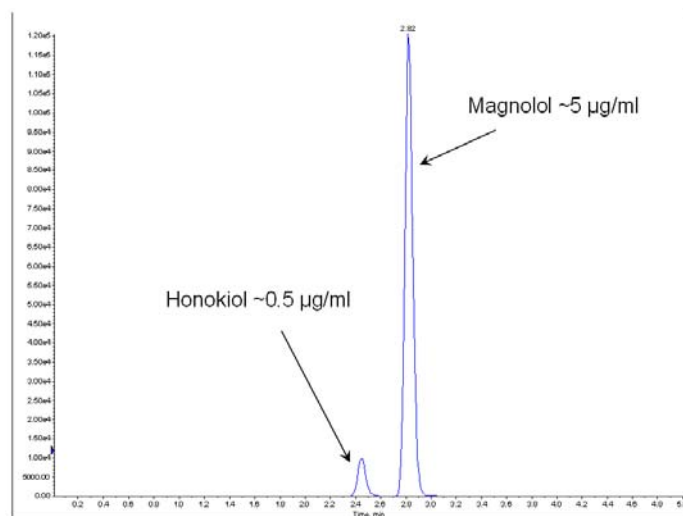


FIGURE S1 The quantitative analysis of magnolol and honokiol in ME by HPLC-MS/MS. The concentration of ME is 10 µg/mL. The content of magnolol and honokiol in ME is about 5 µg/mL and 0.5 µg/mL respectively.

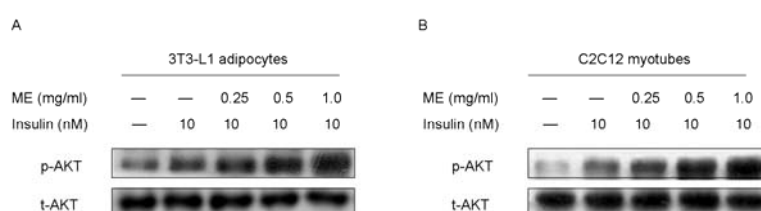


Figure S2 Effects of ME on Akt. Differentiated 3T3-L1 adipocytes (A) and C2C12 myotubes (B) were starved for 4 h before stimulation. The cells were incubated with vehicle or ME at various concentrations for 30 min and then stimulated with vehicle or 10 nM insulin for 5 min. The levels of t-Akt and p-Akt were determined by western blotting with anti-Akt (Cell Signaling Technology #9272) and anti-phospho-Akt (Cell Signaling Technology #9611) antibodies.

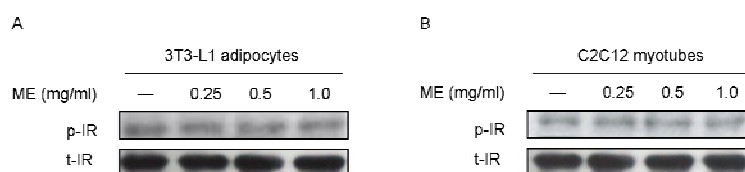


Figure S3 The effect of ME alone on IR. Differentiated 3T3-L1 adipocytes (A) and C2C12 myotubes (B) were starved for 4 h before stimulation. The cells were incubated with vehicle or ME at various concentrations for 30 min. Tyrosine phosphorylations of IR were determined by western blotting with anti-phospho-IR β antibodies.

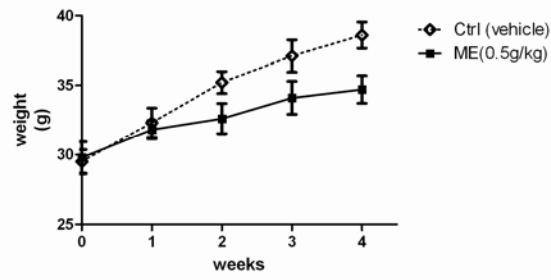


Figure S4 The effect of ME on body weight. Mice were orally treated with 0.9% saline alone (vehicle) and ME (0.5 g/kg) once a day for 4 weeks. Body weight of 16 h fasted mice were monitored every week (n=10).